

MODULE 2: Assessing the Environmental Results of the Innovation

I. Identifying Environmental Goals of the Innovation

1. What are the specific **environmental goals** that the innovation is intended to achieve? Please describe.
2. Do the **goals of the innovation match the problem(s)** that the project is trying to solve? (Related to Module 1)
3. Do the goals of the innovation match the expected/intended outcomes of the innovation? (Related to Module 1)
4. Do the goals of the innovation include **cross-media transfers**? If yes, how many and what types of cross-media transfers are being considered?

II. Measuring the Environmental Results

Environmental Indicators

5. For each environmental goal, what qualitative and quantitative **environmental indicators** (e.g., beaches closed, waters impaired, brownfields redeveloped) are being used to measure progress/impacts (*see Companion User's Guide for examples*)?
6. What is the **measurement approach** (e.g., modeling data, in-situ experiment, historical data extrapolation, real-time, one-time observations) that will be used to measure progress for each environmental goal?
7. For each environmental indicator, what is the **pre-innovation "baseline"** against which progress is measured (e.g., baseline is that 10 percent of beaches currently impaired—the innovation is to have zero impaired beaches in five years)?
8. How will pre-innovation "baseline" conditions for the **environmental impacts of third parties** (customers, suppliers, environmental quality trading partners, etc.) be established? How will changes be measure and non-innovation related changes controlled for?
9. For each of the environmental indicators listed, what is the **schedule for data collection** (e.g., daily, weekly, quarterly, annually etc.)?
10. According to the indicators listed above, what have been the **environmental impacts** of the innovation (e.g., 100 tons of volatile organic compounds emissions have been eliminated to date)? *Provide both qualitative and quantitative outcomes. The innovation may be of too recent origin for environmental impacts to be observable. Provide qualitative outcomes if possible—e.g., increase in senior management review, etc.*

Environmental Results

11. To what extent are the **environmental impacts** of the innovation consistent with what was expected at the time of design and implementation?
12. Are **sufficient data available** to determine if the innovation has met its environmental goals (e.g., are the data qualitative or quantitative or both)?
13. To what extent **has the innovation been an improvement** over the prior/traditional approach with regard to:
 - i. Human health
 - ii. Organizational management
 - iii. Community based protection
 - iv. Quality of life
 - v. Ecosystem health
 - vi. Tribal management
 - vii. Environmental Justice communities
 - viii. Others
14. How are **environmental results verified**? Who is responsible for verifying results?
15. How often are environmental results verified?

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Innovation Analysis Modules

Exhibit 2: Environmental Results Table

Project Objectives with Goals	Indicators (EMS Objectives and Targets)	Pre-project Base Statistics	Sources of info and Calculations	Output Metrics	Impact / Outcome
	Regulatory Indicators— Federal/State/Local				
	Non-regulatory Indicators				